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## CLAIMS:

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- A fire retarding device for covering a hot casing, 2 1. 3 comprising:
  - a flexible member adapted for superposition on the hot casing, said member adapted to cover at least a portion of the hot casing, said member comprising intermingled filaments forming а porous arresting fibrous network; said fibrous network having a volume being more porous than dense, and wherein said filaments are arranged to define voids of a maximum size throughout said fibrous network, and wherein said maximum void size is chosen to limit flame propagation of an ignited fluid through said member.
- 15 16 2. The fire retarding device as defined in claim 1, wherein the fire retarding device is removable from said hot 17 casing.
  - The fire retarding device as defined in claim 1, wherein 18 19 said filaments are irregularly intertwined to form said 20 fibrous network.
  - The fire retarding device as defined in claim 1, wherein 21 22 said member is entirely comprised of said 23 arresting fibrous network.
  - 24 5. The fire retarding device as defined in claim 1, further 25 comprising a plurality of insulative thermal blankets

- disposed adjacent one another around said hot casing,
- and wherein a said flexible member is disposed between
- 3 adjacent sections of said insulative thermal blankets.
- 4 6. The fire retarding device as defined in claim 1, further
- 5 comprising an insulative thermal blanket disposed around
- 6 said hot casing, and wherein a said flexible member is
- 7 disposed around said insulative thermal blanket.
- 8 7. The fire retarding device as defined in claim 1, wherein said member is disposed immediately adjacent said hot casing.
- The fire retarding device as defined in claim 1, wherein said hot casing is an aircraft engine casing.
- The fire retarding device as defined in claim 1, wherein said filaments are metal.
  - 15 10. A fire retarding device for covering a hot casing,
    16 comprising:
  - blanket said member adapted to cover at least a 17 portion of the hot casing, said blanket comprising a 18 plurality of filaments arranged to form a flame 19 arresting matrix, said filaments intersecting in 20 said matrix to form a plurality of voids in said 21 matrix, said voids being smaller than a maximum size 22 throughout said mesh matrix, said maximum size 23 predetermined being to limit flame propagation of an 24 ignited fluid across said voids. 25

- The fire retarding device as defined in claim 10, 1 11.
- wherein said blanket is disposed immediately adjacent 2
- 3 said hot casing.
- A fire retarding device for covering a hot casing, 12. 4 5 comprising:
- a member adapted to cover at least a portion of the hot 6
- casing, said member comprising a porous 7
- arresting matrix having a plurality of substantially 8
- interconnected voids defined therein, said voids
- having a maximum size, said maximum size being
- [] 10 [] 11 predetermined to limit flame propagation of
- **5** 12 ignited fluid across said voids.
- □ 13 The fire retarding device as defined in claim 12, 13.
- wherein said member is disposed immediately adjacent on <u>⊫</u>. 14
- Man alla 15 the hot casing.
- fire retarding device as defined in claim 12, 16 14.
  - least one insulative thermal further comprising at 17
  - blanket. 18

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- The fire retarding device as defined in claim 12, 19 15.
- wherein the hot casing is an aircraft jet engine casing 20
- and wherein said flammable fluid is jet fuel. 21
- fire retarding device as defined in claim 12, 22 16.
- wherein said flame arresting matrix has a percent-23
- density of between 10% and 30%. 24

- 1 17. The fire retarding device as defined in claim 12, wherein said voids do not exceed a maximum size in at
- 3 least a direction extending substantially outwardly from
- 4 said hot casing.
- 5 18. The fire retarding device as defined in claim 12, 6 wherein said member is removable from said hot casing.
- 7 19. The fire retarding device as defined in claim 12, wherein said member is composed of a metal.